PDFTools - XML to PDF Guide

Since version 1.1, PDFTools include a XML to PDF conversion utility. This feature allows you to create a PDF document by specifying structure in a XML document. The XML tags in PDFTools is closer to HTML tags, so it is very easy to understand and use. **Take a look at the DTD for PDFTools** for list of tags and supported attributes. Following are the tags supported in PDFTools :

- **"document" : Represents a PDF document.**
- **"header" : Header tag**
- **"footer" : Footer tag**
- **"p" : Paragraph tag.**
- **"font" : Font tag**
- **"a" : Anchor(link) tag**
- **"br" : New line tag**
- **"pagebreak" : New page tag**
- **"img" : Image tag**
- **"pagenumber" : Page Number tag**
- **"table" : Table tag**
- **"cell" : Cell tag**
- **To insert space use **

Examples : 1) To understand the PDFTools xml format. Download the following example files : newton.xml , image1 and image2 Copy images to c: folder, and run PDFTools's "PDF Creator" option. You can download the generated PDF newton.pdf also from here. **Note: If you have problem accessing to sheelapps.com then change <!DOCTYPE document SYSTEM "http://sheelapps.com/PDFTools/PDFTools1.1.dtd"> to <!DOCTYPE document SYSTEM "PDFTools1.1.dtd"> and keep xml file and DTD** file in same folder.

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document

The document tag is the top most tag in PDFTools' XML file. All the other tags should be declared inside this tag. The document tag should contain at least one paragraph("p") or table tag to generate a PDF. **Note: If you have problem accessing to sheelapps.com then change <!DOCTYPE document SYSTEM "http://sheelapps.com/PDFTools/PDFTools1.1.dtd"> to <!DOCTYPE document SYSTEM "PDFTools1.1.dtd"> and keep xml file and dtd file in same folder.**
Example:

```
    <?xml version="1.0" encoding="utf-8"?>
      <!DOCTYPE document SYSTEM "http://sheelapps.com/PDFTools/PDFTools1.1.dtd">
       <document author="Sheel Khanna" title="Isaac Newton" pageSize="A4"
marginLeft="10" marginRight="10" marginTop="10" marginBottom="10">
<!-- other tags -->
      </document>
```

Supported attributes :

Attribute	Description	Optional	Supported values	Default Value

author	Adds the author property to the document	Yes	Text	-
title	Adds the title property to the document	Yes	Text	-
marginTop	Sets the top margin for the document	Yes	Float	36
marginBottom	Sets the bottom margin for the document	Yes	Float	36
marginLeft	Sets the left margin for the document	Yes	Float	36
marginRight	Sets the right margin for the document	Yes	Float	36
pageSize	Sets the page size	Yes	Must be : A0 to A10 or B0 to B5 or ARCH_A to ARCH_E or HALFLETTER or LEDGER or _11X17	A4

Following tags are allowed inside document tag:

p	header	footer	table	pagebreak	br

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header

It is an optional tag. The header tag adds the Header section to every page in document. There should be only one header tag per document.
Example:

```
<header align="right">
 This is header text.
</header>
```

Supported attributes :

Attribute	Description	Optional	Supported values	Default Value
align	Alignment of text in header	Yes	"left" or "center" or "right"	"center"

Following tags are allowed inside header tag :

font

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footer

It is an optional tag. The footer tag adds the Footer section to every page in document. There should be only

one footer tag per document. Note: Unlike header, you cannot specify a **font** tag inside a footer tag. Instead you can specify font attributes as footer attribute.
Example:

```
      <footer align="right" size="7" >
   This is footer text and this is page # <pagenumber/>.
  </footer>
```

Supported attributes :

Attribute	Description	Optional	Supported values	Default Value
align	Alignment of text in footer	Yes	"left" or "center" or "right"	"center"
face	Footer Font face	Yes	See font	
size	Footer Font size	Yes	See font	
style	Footer Font style	Yes	See font	
color	Footer Font color	Yes	See font	

Following tags are allowed inside footer tag :

pagenumber

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p

The "p" (paragraph) tag are the building blocks of document. Each paragraph represents the section of data in document. You can add multiple paragraphs to document.
Example:

```
  <p>This is sample paragraph text.
       With a newline at <br/> and more text.
  Here is a text in <font style="bold underline"> bold and underline </font>.
  </p>
```

Supported attributes : **None** Following tags are allowed inside paragraph tag :

font	a	pagenumber	img	table	br

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font

"font" tag can be used to specify text formatting in a document.
Example:

```
<font size="10" style="bold italic">size 10 bold italic</font>
<font style="bold italic underline line-through">bold italic underline line-through t
<font size="8" color="blue">normal size 8 color blue text</font>
<font face="Helvetica">Helvetica</font>
<font face="Courier" size="8">Courier</font>
<font face="Times-Roman">Times-Roman</font>
<font face="Symbol">Symbol</font>
```

Supported attributes :

Attribute	Description	Optional	Supported values	Default Value
face	Text face	Yes	Helvetica or Courier or Times-Roman or Symbol or ZapfDingbats	
size	Text size	Yes	Float	12
style	Text style	Yes	Any combination of : normal bold italic underline line-through	normal
color	Text color	Yes	blue or red or green or gray or yellow or lightgray or darkgray or white	black

No tags are allowed inside font tag. Back to Top

a

"a" Anchor tag can be used to specify a hyperlink in a document. The link can be external or internal to another anchor.
Example:

```
<a href="http://sheelapps.com" name="link1">link to sheelapps.com</a>
<a href="#link1" >link to link1 in document</a>
```

Supported attributes :

Attribute	Description	Optional	Supported values	Default Value
name	Name of the link	Yes	Text	
href	Link target	Yes	Text	

Following tags are allowed inside "a" tag :

font

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br

The "br" tag inserts a single line break.
Example:

```
<p>This is simple text with <br/> line break.
</p>
```

Supported attributes : **None** Following tags are allowed inside "br" tag : **None** Back to Top

pagebreak

The "pagebreak" tag inserts a new page in the document.
Example:

```
<pagebreak/>
```

Supported attributes : **None** Following tags are allowed inside "pagebreak" tag : **None** Back to Top

img

"img" tag inserts an image in the document.
Example:

```
<img src="c:/180px-Newton.jpg" align="left textwrap"
 alt="Engraving after Enoch Seeman 1726 portrait of Newton"
 border="0.1" />
```

Supported attributes :

Attribute	Description	Optional	Supported values	Default Value
src	The URL of the image to display	No	Text	
alt	Defines a short description of the image	Yes	Text	
border	Defines a border around an image.	Yes	Float	
width	Defines the width of an image	Yes	Float pixels	
height	Defines the height of an image	Yes	Float pixels	
align	Specifies how to align the image according to surrounding text. Basically this attribute has combination of two values 1) left or middle or right : Location of image 2) textwrap or underlying : Wrap the text or underlay	Yes		

Following tags are allowed inside "img" tag :

None

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pagenumber

This tag can be used to insert current page number in document.
Example:

```
<pagenumber/>
```

Supported attributes : **None** Following tags are allowed inside "pagenumber" tag :

None

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table

"table" tags can be used to define table.
Example:

```
<table width="50" align="center" border="0.1" cellspacing="5" cellpadding="5" columns
backgroundcolor="lightgray" bordercolor="blue">
 <cell>
  Column 1
 </cell>
 <cell>
  Column 2
 </cell>
 <cell>
  Column 11
 </cell>
 <cell>
  Column 22
 </cell>
</table>
```

Supported attributes :

Attribute	Description	Optional	Supported values	Default Value
align	Aligns the table.	Yes	left or center or right	left
columns	Number of columns in table	Yes	Number	1
border	Specifies the border width	Yes	Float	
bordercolor	Border color	Yes	Color name	black
cellpadding	Specifies the space between the cell walls and contents	Yes	Float	
cellspacing	Specifies the space between cells	Yes	Float	
backgroundcolor	Table background color	Yes	Color name	white
width	Specifies the table width in percentage	Yes	Float	

Following tags are allowed inside "table" tag :

cell

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cell

"cell" tags can be used to define cell inside a table. Cell can span to mutiple columns or rows.
Example:

```
 <table width="50" align="center" border="0.1" cellspacing="5" cellpadding="5" columns
 backgroundcolor="lightgray" bordercolor="blue">
  <cell halign="top">
   Column 1
  </cell>
  <cell>
   Column 2
  </cell>
  <cell>
   Column 11
  </cell>
  <cell>
   Column 22
  </cell>
 </table>
 <table width="50" columns"2" >
          <cell width="20" border="0.1">
   Column data
  </cell>
  <cell width="80">
   Column data
  </cell>
  <cell colspan="2" border="0.1" >
   Second row Column data
  </cell>
 </table>
```

Supported attributes :

Attribute	Description	Optional	Supported values	Default Value
halign	Horizontal alignment of text in cell	Yes	left or center or right	left
valign	Vertical alignment of text in cell	Yes	top or middle or bottom	bottom

border	Specifies the border width	Yes	Float	
bordercolor	Border color	Yes	Color name	black
colspan	Specifies the number of columns will cell span	Yes	Float	1
rowspan	Specifies the number of rows will cell span	Yes	Float	1
backgroundcolor	Cell background color	Yes	Color name	white
width	Specifies the cell width in percentage. It should be set to cells only in first row.	Yes	Number	

Following tags are allowed inside "cell" tag :

font	**a**	**br**	**img**	**pagenumber**

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